



De La Salle University

Master of Science in Computer Science (MSCS)

The Master of Science in Computer Science (MSCS) degree program was established to develop in its students, skills in conducting research and further studies at the doctoral level by training them to undertake high level research in Computer Science. It provides students with theoretical and underlying principles of computation on various areas of computer science. The students' understanding of these, and their proficiency and style in written as well as oral communication, are primarily attested to by the successful completion and defense of a master's thesis.

Objectives

The MSCS program aims to develop in its students:

- a working foundation to undertake high level research in Computer Science;
- the basic skills in research of various theories and underlying principles of computation;
- the ability to analyze theoretical solutions; and
- the skills necessary to use abstract models in studying computer and software systems.

Prospective students for this program are academics, computer scientists, computer science researchers working towards a doctorate degree.

Curriculum

Foundation Courses (18 units)

- CSC611M — Advanced Operating Systems
- CSC612M — Advanced Computer Architecture
- CSC615M — Automata, Computability, and Formal Languages
- CSC617M — Theory of Programming Languages
- CSC755M — Design and Analysis of Algorithms
- CSC701M — Methods of Research for CS

Electives (12 units)

Artificial Intelligence, Intelligent Tutoring Systems, Machine Learning, Machine Translation, Neural Networks, Intelligent Systems, Knowledge Engineering and Expert Systems, Computer Graphics, Digital Signal Processing, Advanced Topics in Database Systems, Spatial Databases, Natural Language Processing, etc.

Thesis (6 units)

Total 36 units